## IN THE CLAIMS:

(Currently Amended) A process for removing a contaminant from a substrate comprising:
placing the substrate within a chamber, wherein the substrate includes a pseudoplastic
material and the contaminant;

exposing the pseudoplastic material to a supercritical fluid to remove at least part of the contaminant from the substrate;

flowing the supercritical fluid to a separator that lies at an elevation lower than the chamber; separating at least a portion of the contaminant from a compound within the supercritical fluid; and

removing the substrate from the chamber after exposing,

wherein a shape of the pseudoplastic material, after removing, is not significantly changed when compared to the shape of the pseudoplastic material, before placing.

- 2. (Canceled)
- 3. (Original) The process of claim 1, wherein:

the supercritical fluid comprises molecules with a dipole moment less than approximately one; and

the contaminant includes water.

- 4 5. (Canceled)
- 6. (Original) The process of claim 1, further comprising purging the chamber with a gas before exposing, wherein the gas and the supercritical fluid comprise a same molecular compound.
- 7. (Canceled)
- 8. (Currently amended) The process of claim 17, wherein:

exposing is performed at an exposure temperature of at least a critical temperature of the supercritical fluid; and

separating is performed at a separation temperature below the critical temperature of the supercritical fluid.

- 9. (Currently amended) The process of claim 1, further comprising decompressing the chamber after exposing, wherein decompressing is performed while the substrate lies within the chamber and at a rate such that the supercritical fluid does not form a liquid or a solid.
- 10. (Canceled)
- 11. (Original) The process of claim 1, wherein:

the pseudoplastic material is at least part of a patterned organic layer defining an opening; and

the opening has an aspect ratio of at least approximately 2:1.

- 12. (Original) The process of claim 1, wherein exposing is performed at least until an endpoint is detected.
- 13. (Canceled)
- 14. (Currently amended) A process for removing a contaminant from a substrate comprising: placing the substrate within a chamber, wherein:

the contaminant overlies the substrate includes the contaminant; and the contaminant includes molecules having a dipole moment of at least approximately one;

exposing the substrate to a supercritical fluid to remove at least part of the contaminant from the substrate, wherein the supercritical fluid comprises molecules with a dipole moment less than approximately one;

flowing the supercritical fluid to a separator that lies at an elevation lower than the chamber; separating at least a portion of the contaminant from a compound within the supercritical fluid; and

removing the substrate from the chamber after exposing.

- 15. (Canceled)
- 16. (Currently amended) The process of claim 145, wherein:

the resist is at least part of <u>substrate comprises</u> a patterned layer defining an opening; the opening has an aspect ratio of at least approximately 2:1; and at least part of the contaminant lies near a bottom of the opening.

- 17 18. (Canceled)
- 19. (Original) The process of claim 14, further comprising purging the chamber with a gas before exposing, wherein the gas and the supercritical fluid comprise a same molecular compound.
- 20. (Canceled)
- 21. (Currently amended) The process of claim 2014, wherein: exposing is performed at an exposure temperature of at least a critical temperature of the supercritical fluid; and separating is performed at a separation temperature below the critical temperature of the supercritical fluid.
- 22. (Currently amended) The process of claim 14, further comprising decompressing the chamber after exposing, wherein decompressing is performed while the substrate lies within the chamber and at a rate such that the supercritical fluid does not form a liquid or a solid.
- 23. (Canceled)
- 24. (Original) The process of claim 14, wherein exposing is performed at least until an endpoint is detected.
- 25 33. (Canceled)
- 34. (New) A process for removing a contaminant from a substrate comprising: placing the substrate within a chamber, wherein the substrate includes a pseudoplastic material and the contaminant; exposing the pseudoplastic material to a supercritical fluid to remove at least part of the contaminant from the substrate;

cooling the supercritical fluid to form a liquid, wherein cooling is performed on the supercritical fluid after it has been exposed to the pseudoplastic material; pumping the liquid;

heating the liquid to form the supercritical fluid, wherein heating is performed on the liquid after it has been pumped; and

removing the substrate from the chamber after exposing,

wherein a shape of the pseudoplastic material, after removing, is not significantly changed when compared to the shape of the pseudoplastic material, before placing.

35. (New) The process of claim 34, wherein:

the supercritical fluid comprises molecules with a dipole moment less than approximately one; and

the contaminant includes water.

- 36. (New) The process of claim 34, further comprising purging the chamber with a gas before exposing, wherein the gas and the supercritical fluid comprise a same molecular compound.
- 37. (New) The process of claim 34, further comprising:

flowing the supercritical fluid to a separator that lies at an elevation lower than the chamber; and

separating at least a portion of the contaminant from a compound within the supercritical fluid.

- 38. (New) The process of claim 37, wherein:
  - exposing is performed at an exposure temperature of at least a critical temperature of the supercritical fluid; and
  - separating is performed at a separation temperature below the critical temperature of the supercritical fluid.
- 39. (New) The process of claim 34, further comprising decompressing the chamber after exposing, wherein decompressing is performed while the substrate lies within the chamber and at a rate such that the supercritical fluid does not form a liquid or a solid.

40. (New) The process of claim 34, wherein:

the pseudoplastic material is at least part of a patterned organic layer defining an opening; and

the opening has an aspect ratio of at least approximately 2:1.

- 41. (New) The process of claim 34, wherein exposing is performed at least until an endpoint is detected.
- 42. (New) A process for removing a contaminant from a substrate comprising:

placing the substrate within a chamber, wherein:

the contaminant overlies the substrate; and

the contaminant includes molecules having a dipole moment of at least approximately one;

exposing the substrate to a supercritical fluid to remove at least part of the contaminant from the substrate, wherein the supercritical fluid comprises molecules with a dipole moment less than approximately one;

cooling the supercritical fluid to form a liquid, wherein cooling is performed on the supercritical fluid after it has been exposed to the pseudoplastic material;

pumping the liquid;

heating the liquid to form the supercritical fluid, wherein heating is performed on the liquid after it has been pumped; and

removing the substrate from the chamber after exposing.

43. (New) The process of claim 42, wherein:

the resist is at least part of a patterned layer defining an opening; the opening has an aspect ratio of at least approximately 2:1; and at least part of the contaminant lies near a bottom of the opening.

- 44. (New) The process of claim 42, further comprising purging the chamber with a gas before exposing, wherein the gas and the supercritical fluid comprise a same molecular compound.
- 45. (New) The process of claim 42, further comprising:

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- flowing the supercritical fluid to a separator that lies at an elevation lower than the chamber; and
- separating at least a portion of the contaminant from a compound within the supercritical fluid.
- 46. (New) The process of claim 45, wherein:
  - exposing is performed at an exposure temperature of at least a critical temperature of the supercritical fluid; and
  - separating is performed at a separation temperature below the critical temperature of the supercritical fluid.
- 47. (New) The process of claim 42, further comprising decompressing the chamber after exposing, wherein decompressing is performed while the substrate lies within the chamber and at a rate such that the supercritical fluid does not form a liquid or a solid.
- 48. (New) The process of claim 42, wherein exposing is performed at least until an endpoint is detected.